Plant Operations Notebook, N-94-06-20

This notebook covers the periods June-July 1894 and December 1897, with some undated pages near the middle of the book. It was used by an unidentified author primarily as a receiving book for shipments arriving at Ogden. The book also contains records from bricking and rosin experiments. The pages are unnumbered. Approximately 180 pages have been used. Four loose pages have been inserted into the book. Only the bricking and rosin material has been filmed.

5692 ✓ S. July 24/84
✓ S.S.C.

2 doz. Wood testing Socket

H.

I. a.

Briquette put on top of screen plate, plate resting on the top of stove, with top open for free ventilation

Started. 1. 25 P.m. Per minute
1 26 —— 200°
1. 27 —— 265° = 65°
1 28 —— 295° = 30°
1 29 —— 310° = 15°
1 30 —— 320° = 10°
1. 31 —— 330° = 10°
1 32 —— 340° = 10°
1 33 —— 350° = 10°
1 34 —— 360° = 10°
1. 35 —— 367° = 7°
1. 36 —— 370° = 3°
1 37 — 375° = 5°
1 38 —— 385° = 8°
1 40 —— 400° = 8½°
1 41 —— 405° = 5°
1 43 —— 410° = 5°
1 46 — 420° = 3⅓
1 48 —— 430° = 5°
1 50 —— 440° = 5°
Stop 1 52 —— 450° = 5
Taken out 2 15

No. 2.ª
Same as #1.ª

Started. 3 P.m. = 25°
3.02 — 200° = 25°
3.03 — 225° = 20°
3.04 — 250° = 20°
3.05 — 270° = 20°
3.06 — 290° = 15°
3.07 — 305° = 10°
3.08 — 315° = 10°
3.09 — 325° = 10°
3.10 — 335° = 10°
3.11 — 345° = 7½°
3.12 — 360° = 7½°
3.13 — 370° = 5°
3.15 — 380° = 5°
3.16 385° = 5°
3.17 390° = 5°
3.18 395° = 5°
3.19 400° = 5°
3.20 405° = 5°
3.21 410° = 5°
3.22 415° = 5°
3.23 420° = 5°
3.24 425° = 3°
3.25 435° = 3⅓
3.28 450°. = 5°
Stop 3.31
Taken out 3.50.

No 3 a

Same as #1

Started, 4.00 P.m, per. minute
4.02 — 200°
4.03 — 220° = 20°
4.04 — 240° = 20°
4.05 — 260° = 20°
4.06 — 270° = 15°
4.07 — 290° = 15°
4.08 — 305° = 15°
4.09 — 315° = 10°
4.10 — 320° = 10°
4.12 — 340° = 7½°
4.14 — 355° = 7½°
4.16 — 370° = 7½°
4.18 — 380° = 5°
4.19 — 385° = 5°
4.20 — 390° = 5°
4.21 — 395° = 5°
4.22 — 400° = 5°
4.23 — 405 = 5°
4.24 — 410 = 5°
4.26 — 420 = 5°
4.27 — 425 = 5°
4.28 — 430° = 5°
4.29 — 435° = 5°
4.30 — 440° = 5°
Stop 4.31 — 445 = 5
Taken out 4.50

No 49

Same as # 1.

Started 5:00 P. m — per minute

5:02 — 200°
5:03 — 220° = 20°
5:04 — 240° = 20°
5:05 — 260° = 20°
5:06 = 275° = 15°
5:07 — 290° = 15°
5:08 — 305° = 15°
5:09 — 320° = 15°
5:10 = 332° = 12°
5:11 = 345° = 13°
5:13 = 370 = 12½°
5:14 = 380° = 10°
5:15 = 390 = 10°
5:16 = 400 = 10°
5:17 = 405° = 5°
5:18 = 410° = 5°
5:19 = 415° = 5°
5:20 — 420 = 5°
5:21 — 425° = 5°
5:22 — 430 — 5°
5:23 — 435° — 5°
5:24 — 440 — 5°
5:25 — 445° — 5°
Stops — 5:26 —
Taken out — 5:50

No. 1 B.

Briquette resting on top of tin plate with top open for free ventilation

Started.	8.08 am				Increase
	8.09		200°		
	8.10	—	220°	=	20°
	8.11	—	240°	=	20°
	8.12	—	260°	=	20°
	8.13	—	275°	=	15°
	8.15	—	300°	=	12½°
	8.16	—	310°	=	10°
	8.17	—	320°	=	10°
	8.18	—	330°	=	10°
	8.20	=	345°	=	7½
	8.22	=	360°	=	7½
	8.27	=	390°	=	6°
	8.30	=	405°	=	5°
	8.31	=	410	=	5°
	8.32	.	415	=	5°
	8.33	—	420	=	5°
	8.34	—	425	-	5°
	8.35	—	430	=	5°
	8.36	—	435	=	5°
	8.37	—	440°	=	5°
Stop	8.40		450	=	3⅓
Taken out	8.58				

No 2 B.

Same as # 1

Started 9.08. a.m. per [illegible]

9.10 — 190°
9.11 — 210° = 20°
9.12 — 230° = 20°
9.13 — 247 - 17°
9.14 — 265 = 18°
9.15 — 280° - 15°
9.16 — 294 - 14°
9.17 — 305° = 11°
9.18 — 315° = 10°
9.19 — 322° = 7°
9.20 — 330 = 8°
9.21 — 337 = 7°
9.22 — 343° = 6°
9.23 — 350 = 7°
9.24 — 358 = 8°
9.25 — 366 = 8°
9.26 — 375 = 9°
9.27 — 382 = 7°
9.28 = 388 = 6°
9.29 = 395 = 7°
9.30 = 400 = 5°
9.31 — 405° = 5°
9.32 — 410 = 5
9.33 — 414 = 4
9.35 — 418 =
9.36 — 422 =

9.37 — 427 = 5°
9.38 - 430 = 3°
9.39 - 435 - 5°
9.40 - 440 - 5°
9.41 - 445 = 5°

Fallen out.
9.43.

No 3 B

Same as # I.

Started at 10.11 per minute
10.12 — 200°.
10.13 — 225° = 25°
10.14 — 245° = 20°
10.15 — 260 = 15°
10.16 — 270° = 10°

No 4 B

Started at 10.50

10.52 — 190 per minute
10.53 . 208° = 18°
10.54 . 220 = 12°
10.55 — 230 = 10°
10.56 — 240 = 10°
10.57 — 250 = 10°
10.58 — 260 = 10°
11.00 — 275 = 7½
11.01 — 285 = 10°
11.02 — 295 = 10°
11.03 305 = 10°
11.04 . 315 = 10°
11.05 . 325 = 10°
11.06 . 335 = 10°
11.07 . 342 = 7°
11.08 350 = 8°
11.09 — 358 = 8°
11.10 — 365 = 7°
11.11 — 372 = 7°
11.12 — 378 = 6°
11.13 — 385 = 7°
11.14 — 390 = 5°
11.15 . 395 = 5°
11.16 — 400 = 5°
11.17 — 404 = 4°
11.18 — 409 = 5°
11.19 — 415 = 6°
11.20 — 420 = 5
11.21 — 425 = 5
11.22 = 430 = 5
11.23 = 435 = 5
Stop 11.24 . 440 = 5
Cutter out — 11.25 445 = 5

No 1 c

Briquette put in can with 4 holes in bottom. 7/8 × 1/4. with top open for free ventilation

Started 1.30 P. 977 per minute
1.33 200
1.34 215 = 15°
1.35 230 = 15°
1.36 245 = 15°
1.37 260 = 15°
1.38 275 = 15°
1.39 288 - 13°
2.00 300 12°
1 312 12°
2 325 13°
3 335 10°
4 345 10°
5 355 10°
6 365 10
7 372 = 7°
8 380 = 8°
9 387 = 7
10 395 = 8
11 401 = 6
12 408 = 7
13 415 = 7
14 422 = 7
15 427 = 5
16 432 = 5
17 436 = 4
18 440 = 4
[illegible] 445 = [illegible]

No 27 Same as No 26 of Chain No 2

[illegible] No. 5 [illegible] [illegible] [illegible] 3 min

9-15 -	in alarm	18
9-23	205	
	242	17
9-25	259	15
9-28	308	
9-30	338	9
9-33	356	5
9-36	370	5
9-40	394	4½
9-45	414	4
9-50	431	3½
9-55	448	3½
10-00		

10-55

39
3.1
39
11.7
12.9

28 Elbow No. 6
3 holes in middle
outside " check
11-[illegible] on stove

11-26 207°
13°
11-27 220
14°
29 248 28
10 3/5
11-34 301 33
7
39 335
4
44 355
2 1/5
47 369
4
12-02 420
3
07 434
1
12 439
1/2
17 441

446°
12-21 55 minute

#29 Edison No. 3

1-52 in [illegible]

1-58	200 about	
1-59	222°	
2—	238	16°
2-5	298	12°
-10	331	6 3/5
15	353	4 2/5
20.	365	3 2/5
25	376	2 1/5
35	405	2 9/10
40	416	2 1/5
45	428	2 2/5
50	445	3 2/5
52	450	

Stop 2-53

30 Edison No 4
3-35 In drum
Concentrate on bottom
and some on top

3-49	208°	
53	243	9°
55	258	7 1/2
4–	290	6 2/5
4-5	313	4 3/5
4-29	389	2 2/3

4-44 410°

Friday Dec 3 1897

2-30 P.M

Tests of Rosin & Oil with viscometer

Plates stood several days in air

10 Rosin ~~Scale~~ Wt at 18"
4½ oil Fell in 30 seconds
~~5 [illegible] in~~ 5 18" 5/16 inch

10 Rosin Plate Wt at 18"
5 oil 10 seconds

18
6
108

108 18" 18/8

10 Rosin Plate Wt at 18"
3 oil 1/16 in one minute

1/2 18"

132
33
396
396
4356

~~[illegible]~~ Wt at 18"

46 oz Rosin
16 oz oil

~~[illegible]~~
Heated three
hours to 250° by
W.S. Melberg

11/16 in 9 seconds

11 18" 11/8 = 1 minute

---

20 oz Rosin In Pan
8 oz oil

18/8 in 5 seconds

18
12
36
18
216

216 18"

---

20 oz Rosin One hour at
8 oz oil 135°

9" Wt
18 in 10 seconds

132 9" ~~[illegible]~~ ~~18"~~

66) [illegible] 1/2

22
12
264

20 oz Rosin   Wt at 9"
8 oz oil   11/8 in 10 seconds
66 9"

---

20 Rosin   One hour 175°
8 oz oil   Wt. at 9"
14/8 in 20 sec.

42 9"

14
3
42

Wt at 18"   27/8 in 5 sec
264 18"   22/8 in 3 sec

---

20 oz Rosin   3 Hours 175
8 oz oil   wt at 18"
13/8 in 10 seconds
78 18"   Wt " "

20 Oz Rosin 3 hours 175°
5 oz oil wt at 9"

⑯ 9" 8/8 in 30 seconds

---

20 oz Rosin 1 hour 225°
8 oz oil wt at 18"
8/8 in 20 sec.

㉔ 18"

---

20 oz Rosin 1 hour 275°
8 oz oil wt at 18"

⑫ 18"

---

26 oz Rosin 1 hour 325°
8 oz oil wt at 18" 3/8
wt at 24"

② 18" ② 24"

18

44 [illegible] [illegible]
50 [illegible] 109
55 90
69 192

228 56
284 109
72 14
96 28
120 20
18 6
96 22

1014) 258 (1014 (2.9
778
2460

Dec 4 1897
2-5 PM

20 oz [illegible] in pan ~~[illegible] 175~~
8 oz oil ~~[illegible]~~ Temp 50°

(384) 18″

32 in 5 sec
12
64
32
384

20 grain in pan Temp 50°
8 oz oil

(108) 9″

18 in 10 sec
6
108

20 oz grain 3 hours 175°
8 oz oil Temp 50°

(42) 10½

(28) 9″

14 in 20
14 in 20
~~[illegible]~~
9 in 20
10 in 20
95
3
285

20 oz Rosin
8 oz oil

Thermo 175°
Temp 50

17 in 100
18
15
16
6
90

(90) 18"

---

20 oz Rosin
8 oz oil

Thermo 44°

19 in 5
12
38
19
228

(228) 9"

17 in 20
16 in 20
165
3
495

(50) 9"

Warmed on radi Thermo 55°

14 in 10
14 in 10
6
84

(84) 9"

at 18" too quick to measure

	9"	
44	72	
46	108	
50	124	
52	180	on bench [illegible]
52	191	rising from cold
57	240	
70	240'	after 36 hours at 70°

---

10 oz Rosin Temp 55° Warmed on ~~stove~~ incubator
8 oz oil

(90) 9"

~~17~~
~~16~~
15
6
90

20 oz Rosin 3 hours 175°
8 oz oil Temp 44°

14 in 1 minute

(14) 9"

(72) 18" 12 in 10 sec
6
72

20 oz Rosin One hour at 135°
8 oz oil Temp 52°

(180)' 9" 15 in 5 sec
12
30
15
180

Dec 7 (240) 9" 3 sec rising
2-13 70° 1-50 breaking

180

20 oz Rosin
8 oz oil
3 hours 175°
Temp 60°
12 in 10 sec
12½ 12 " "
12½
6
75
75 9"

---

20 oz Rosin
8 oz oil
1 hour 225°
Temp 51
2 18"

---

20 oz Rosin
8 oz oil
1 hour 135°
Temp 42½
12 in 10.
6
72
72 9"

2.30
Temp 46°

108 9"
18
6
108
17 in 10
19
19

1 P.M
Temp 50°
20 in 10
22
21
21
6
126
126 9"

20 oz Rosin 1 hour 325°
8 oz oil Temp 70°
(16) 18" 16 in 1 minute

---

20 oz Rosin 1 hour 135°
8 oz oil Temp 52° ~~18 in 10 sec~~

235
6
1410

1-35 P.M. (141) 9" ~~21~~ 23 in 10 sec
24

---

20 oz Rosin 1 hour 325°
8 oz oil Temp 80°

(66) 18"
12 in 10 sec
11
11
10

3 minutes for counter-weight to fall

---

20 oz Rosin 1 hour 135°
1-57 P.M. 8 oz oil Temp 57
(240) 9"
20 in 5
21 " 5

1st string of rosin broke 1-25
1-10
1-55

3 hours 175°

Dec 7 1897

5 14 ½ 16[illegible]

	at 18"	at 9"
64°	72	14
50	96	28
54°	120	30
61		75
71°	Dec [illegible]	72 ?
70°	Dec 7	168
72°	Dec 8	84
74"	Dec 9	172

[illegible]

	at 18"	at 9"
51°	2 16	
69°	18	6 6½
73°		
80°	66	
88	96	22

18) 350 (19
18
170

20 =
5½ =

20 oz Rosin 3 hour 175°
8 oz oil Temp 54°

30 9" 10 in 20
10 in 20

2-12 P.M 120 18 9 in 5
10
~~11 in 5~~

12 seconds in rising
Thread broke in 8 minutes 30 sec

2-22 13 seconds in rising
Thread broke in 10 minutes

---

20 oz Rosin 1 hours 325
8 oz oil Temp 88°

11 in 30 sec

22 9" 16 in 10 sec

96 18" 6
96

Dec 7

1-41-30 6 9" Rising 2' 25"
70° 3' 0

1-47-30 7 21 18'

Dec 6 1897
Pans in Canning Room 36 hours
8-40 A.M.

20 oz Rosin
8 oz oil

1 hour 325°
Temp 69°

2½ - 30 [illegible]
7 - 30
8
235
78
158

16
18"

---

20 oz Rosin
8 oz oil

Temp 69°
16
12
32
16
192

16 in 5 [illegible]
18

192
9"

---

20 oz Rosin
8 oz oil

1 hour 135°
Temp ~~69~~ 70°

240
9"

20-5 m

20 oz Rosin 3 hours 175°
7 lbs oil Temp 69°
7 lbs 911 12 in boxes

345
55
1725
1725
18975

#1 Dec 6, 1877
20 oz Rosin
5 1/2 oz oil = 196 cc
1 oz oil = 34½ cc
Rosin melted to 300°
cooled to 280°
oil poured in mixture cooled to
205 then dish put on stove
for few minutes to dissolve
rosin on outside

5½ - 190 cc
6

3-15 PM Dec 6 (12) 9"
55°

(54) 18"
56°

8-35 Am Dec 7 (2) 9"
53°
45 cc. many

8-41 (44) 18"
53°
over ½ minute

Dec 8 (66) 9"
73

345
6
2076

M 2 Dec 6 1897
Reg. [illegible]
[illegible]
[illegible] [illegible] 4.960'
[illegible] [illegible] 5230'

2-20 P.M. Dec 6 (16) 66° 9" 7 m 30
10-10 (140) 56° 18" 10 / 8 / 25
9-00 Am Dec 7 (20) 53° 9" 11 m 30
9-45 (130) 18" 13 m 5
[illegible] heating 53°

Dec 8 (120) 73' 9"

345
65
1725
2070
22425

19
12
228

8
6

#3 Dec 6 1847
20 oz Rosin
6 1/2 oz oil 225°

Rosin heated to 260°
oil cooled to 225°

3-30 Dec 6 (32) 9"
56

(262) 18"
56

10 min 20
5
32
21 min 5
41
262

4-24

10 seconds mixing
3 minutes

10-17 Dec 7
10-22 (48) 9"
10 seconds mixing 54°
5 minutes heating (216) 18" (228) 18"
54° 50°

(197) 9"
73°

12-15
17-5

8
2415
4-0

34
1725
2415
256
14
256

4 Dec 6 1897

20 oz Rosin
7 oz oil = 242 cc
mixed at 265°
(86) 9" 3 sec rising
56° 5' 10" breaking
10-4 Dec 7 (78) 9" 5 sec rising (13-10)
55° 2' 36" breaking

5 Dec 6 1897

20 oz Rosin
7½ oz oil = 259
Mixed at 265°
4-15 a.m. (144) 9" 2½ 3 sec rising
17 56 1-10 sec breaking
1-50 sec 14"
11-37 Am Dec 7 (168) 9" 3 sec rising 14-5"
11-45 56° 3 minutes breaking
~~5 sec~~ 11
1-5 sec
1-20

17
12
34
204

345
8
2760

345
5
1725

#6 Dec 6. 1897
20 oz Brain
8 oz ether = 276 cc. 17

4-22 — 58° (204) 9'' took 40 seconds

#7 Dec 7 1897
20 oz Brain
5 oz ether = 172 cc

No 68 Dec 7 1917

20 oz Resin
8 oz oil

1 hour 325°

Wt Complete 2 lbs 15 oz
when I poured it
at 270° about 15 mins
after wt 2 lbs 14½ oz

10-55 280°
5-8 320° after 2 lbs ~~14 oz~~
13½ oz

Ordr

5534 — 6 Set Screws ordered 6/13

5535 — ~~500 [illegible]~~ 6/13
(1250 rec'd)

5549. 5 bars 1" Sq. Key Stock — 6/14

5570 1000 Carbons 12 × 15/16 × 7/16 } — 6/19
1000 — 6¼ × 15/16 × 7/16

55 4 doz. ~~Whitewood Camp lead pencil~~ } 6/19
2 — ~~#44 Cedar — do~~ ~~6/19~~
1 — ~~7/64 S.S. Twist drills~~

5585 1 # Bar 1¾ finished Key Steel } — 6/20
1 — 1⅞ — — —
1 — 1⅝ — — —

5587 2 doz. #4 — 36 thread mach taps. — 6/20 ~~Prices~~

5590 5 gal. #1 Brown Japan

5593 ~~1 [illegible]~~ ~~6/22~~

5596 ~~200 ft. #16 B.W.I. flexible cord~~ 6/23

5598 50 · ½ × 4 mach. bolts } 6/25
50 ½ × 3 — —
50 ½ × 2 — —
100 3/8 × 2½ — —
50 3/8 × 3 — —

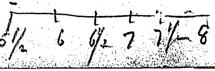
5599 100 feet 3/8 Square iron 6/25

5600

~~½ doz. 3" Ells~~ } rec'd? 6/25
~~½ — 4" —~~
~~½ — 1" Suction Tee~~

20 oz Rosin

		53°	73°	
oz Oil		9"	18"	9"
5 oz			51	
5½		6		66
6	14	20		120
6½	28	48		197
7	30	78		
7½	90	168		
8	36	204		



[ITEM FOUND IN BOOK]

#564

[illegible]

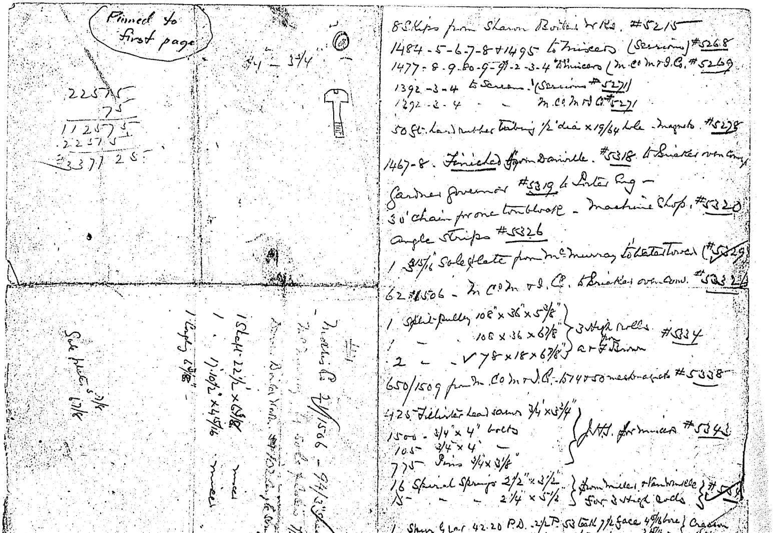
160 lbs

6 bars 1" Iron [illegible] to Store room

12 - 3/4 O iron to Store room
29 - 3/4 - - - Blacksmith
41

~~6~~ 14 - 7/8" O iron to Store room

[ITEM FOUND IN BOOK]



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225 75
75
11257 5
2257 5
3377 25

3/4 – 3 1/4

85 Clips from Sharon Boiler Wks. #5215
1484-5-6-7-8 & 1495 to Misceo (Sessions) #5268
1477-8-9-80-9-91-2-3-4 to Misceo (M. Co M & I. Co. #5269
1392-3-4 to Scream.! (Sessions #5271
1392-3-4 – – M. Co M & I Co #5271
50 ft. hard rubber tubing 1/2" dia × 19/64 hole – Magneto. #5278

1467-8. Finished from Danville. #5318 to Snakes oven Comp.
Gardner governor #5319 to Porter Eng –
30' chain from one ton block – Machine Shop. #5320
angle strips #5326
1 3 15/16" Sole plate from McMurray to Water Tower (#5329
62 #1506 – M. Co M & I. Co. to Snakes oven Comp. #5332

1 Split pulley 108" × 36" × 5 3/8"
1 – 108 × 36 × 6 7/8"
2 – 78 × 18 × 6 7/8"
3 High rolls for A & F Brown #5334

650/1509 from M. Co M & I. Co. – 1574 & 50 mesh magnets #5338

425 Fillister head screws 3/4 × 5 3/4"
1500 – 3/4" × 4" bolts
105 3/4 × 4 –
775 Pins 3/4 × 3/8"
J.H.S. for Misceo #5343

16 Spiral Springs 2 1/2" × 3 1/2"
15 – – 2 1/4 × 5 1/2
from Miller & Vandevelde for 3 high rolls #5344

1 Spur Gear 42.20 P.D. 2 1/2 P. 53 teeth 7 1/2 face 4 15/16 bore
1 – 12.02 " 2 1/2 15 teeth 7 1/2 " 2 15/16 –
Creason for Water Tower #5345

Mathis Co 2 #1506 – 9 4/3 3 1/4 [illegible]
[illegible] 7 7/16
[illegible]
1 Shaft 22 1/2 × 6 3/8 mices
1 " 17 10 1/2 × 4 15/16 mices
1 Cupl 6 7/8" –
Sole plate 5 3/16 6 7/16

[ITEM FOUND IN BOOK]

500 C.S. Screws 1/2" × 1 1/2"
500 Bolts 7/16 × 1 3/4"
150 – 5/8 × 1 3/4"
500 lockwashers 1/2" hole
} for Bricks oven Conveyor #5346

30 Boiler tubes 3" × 12'0"
1 3" Dudgeon tube expander
} Tower #5347

38 pcs channel 5" × 12' × 1/4
5 × 9' × 1/4
2 – 5 × 8' × 1/4
2 – 6" I beam 3 1/2 × 23/100 × 12'0"
38 – – – – 3 1/2 × 23/100 × 17'0"
2 – – – – 3 1/2 × 23/100 × 8'0"
4
} for Bricks oven Conveyor #5348

[ITEM FOUND IN BOOK]

Pinned to page July 20, 1894

5646. - 100 3 ply Bell Line Rings
100 4 - -
50 8 - -

5647 - 3 Sash paint-brushes

~~5678. 6 bars ½ x ½ Solder~~

~~5680. 100 lbs 1" Cast iron [illegible]~~

5683. 2 doz. #571 Cedar Lead Pencils

~~5692. 1 doz. Wood Turning [illegible]~~

~~5709. 5 Kegs. 20d Wire Nails~~

5710. 7 lbs. Mercury

5713. 2 gross 10" Hack Saw blades

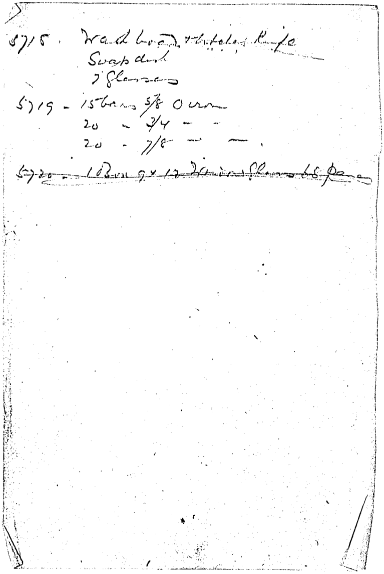
5714. 1 set 1" 8 thread mach. taps
1 - ½ 12 - - -
1 - 3/8 16 - - -
100 - 3/16 x ½ brass mach. Screws

5715 - ~~1 doz glass jars~~
~~6 cans Caustic Potash~~
~~3 doz. Copper oxide plates & 1 doz holders~~
~~3 - Rubber Pcs. Insul-between Zincs~~
~~2 - Zincs~~
~~1 gal Paraffine oil.~~

5716 - 100 lbs. ¾ Hex nuts
200 gr. 5/8 [illegible]

5717 Crimson writing fluid

[ITEM FOUND IN BOOK]



5/18. Wash board & butcher knife
Soap dish
7 glasses

5/19 - 15 bars 5/8 O iron
20 - 3/4 - -
20 - 7/8 - -

~~5/20 - 1 Box 9×12 Window glass 68 panes~~